## What is claimed is:

- 1 1. A resistive element, comprising:
- a first contact point connected to a capacitor terminal;
- a second contact point connected to a circuit board plane; and
- 4 a resistive material connected to the first and second contact points.
- 1 2. The resistive element of claim 1, wherein the first contact point is connected
- 2 to the capacitor terminal using solder, and wherein the second contact point is
- 3 connected to the circuit board plane using at least one via.
- 1 3. The resistive element of claim 1, wherein the resistive material includes a
- 2 first metal.
- 1 4. The resistive element of claim 3, wherein the first metal is nickel.
- 1 5. The resistive element of claim 3, wherein the resistive material includes a
- 2 second metal.
- 1 6. The resistive element of claim 5, wherein the second metal is gold.
- 1 7. The resistive element of claim 6, wherein the first and second metals have a
- width of about 10 to about 1000 microns, a length of about 10 to about 5000
- 3 microns, and a total thickness of about 0.05 to about 2.5 microns.
- 1 8. The resistive element of claim 1, wherein the resistive material includes a
- 2 conductive epoxy.
- 1 9. The resistive element of claim 1, wherein the resistive material includes a
- 2 resistive component selected from a group consisting of: a metal, a conductive metal
- 3 oxide, a glass, a solvent, a polymer, nickel, chromium, tantalum, oxynitride, silicon

- 4 monoxide, cobalt, alumina, sapphire, quartz, berillium, palladium, carbon, platinum,
- 5 ruthenium, rhodium, and gold.
- 1 10. The resistive element of claim 1, wherein the second contact point is
- 2 connected to the circuit board plane using a plurality of vias.
- 1 11. The resistive element of claim 1, wherein a summed series resistance
- 2 provided by adding a value of resistance for the resistive element to an effective
- 3 series resistance of the capacitor is approximately equal to an effective series
- 4 resistance of a circuit board capacitor and a circuit board plane connected to the
- 5 circuit board capacitor.
- 1 12. A circuit board, comprising:
- 2 a capacitor having a terminal;
- 3 a power supply plane; and
- 4 a resistive element including a first contact point connected to the terminal
- of the capacitor, a second contact point connected to the power supply plane, and
- 6 a resistive material connected to the first and second contact points.
- 1 13. The circuit board of claim 12, wherein the first contact point is connected to
- 2 the terminal of the capacitor using solder, and wherein the second contact point is
- 3 connected to the power supply plane using at least one via.
- 1 14. The circuit board of claim 13, wherein the resistive material includes a first
- 2 metal and a second metal.
- 1 15. The circuit board of claim 14, wherein the first metal is nickel and the
- 2 second metal is gold.
- 1 16. The circuit board of claim 12, wherein the resistive material is selected from
- a group consisting of: a metal, a conductive metal oxide, a glass, a solvent, a

- 3 polymer, nickel, chromium, tantalum, oxynitride, silicon monoxide, cobalt, alumina,
- 4 sapphire, quartz, berillium, palladium, carbon, platinum, ruthenium, rhodium, and
- 5 gold.
- 1 17. The circuit board of claim 12, wherein a summed series resistance provided
- 2 by adding a value of resistance for the resistive element to an effective series
- 3 resistance of the capacitor is approximately equal to an effective series resistance of
- 4 a circuit board capacitor and an effective series resistance of the power supply plane
- 5 connected to the circuit board capacitor.
- 1 18. A circuit package, comprising:
- 2 a circuit element;
- a first terminal connected to the circuit element; and
- 4 a second terminal connected the circuit element and to a first contact point of
- 5 a resistive element including a second contact point for connection to a power
- 6 supply plane.
- 1 19. The circuit package of claim 18, wherein the circuit element is a capacitor.
- 1 20. The circuit package of claim 18, wherein the circuit element includes at least
- 2 one transistor.
- 1 21. The circuit package of claim 18, wherein the circuit package has an outside
- 2 surface to which the resistive element is attached.
- 1 22. The circuit package of claim 18, wherein a summed series resistance
- 2 provided by adding a value of resistance for the resistive element to an effective
- 3 series resistance of the circuit element is approximately equal to an effective series
- 4 resistance of a circuit board capacitor connected to the power supply plane added to
- 5 an effective series resistance of the power supply plane.

- 1 23. A method fabricating a circuit board, comprising:
- 2 selecting an amount of equivalent series resistance for a resistive element
- 3 including a first contact point and a second contact point;
- 4 selecting a type of material for the resistive element;
- fabricating at least one layer of the circuit board having a pad and a via for
- 6 connection to a power plane of the circuit board;
- depositing the resistive element on the layer of the circuit board so as to
- 8 connect the first contact point to the pad and to connect the second contact point to
- 9 the via.
- 1 24. The method of claim 23, wherein depositing the resistive element on the
- 2 layer of the circuit board so as to connect the first contact point to the pad and to
- 3 connect the second contact point to the via further comprises:
- 4 screening the resistive element onto the layer of the circuit board.
- 1 25. The method of claim 23, wherein depositing the resistive element on the
- 2 layer of the circuit board so as to connect the first contact point to the pad and to
- 3 connect the second contact point to the via further comprises:
- 4 plating the resistive element onto the layer of the circuit board.
- 1 26. The method of claim 23, wherein selecting an amount of equivalent series
- 2 resistance for a resistive element further comprises:
- 3 selecting a value of resistance for the resistive element such that a summed
- 4 series resistance provided by adding the value of resistance for the resistive element
- 5 to an effective series resistance of a first capacitor is approximately equal to an
- 6 effective series resistance of a second capacitor attached to the circuit board added
- 7 to an effective series resistance of the power plane.